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(54) GROWING OF THIN FILM ELECTROLUMINESCENCE STRUCTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To grow an SrS phosphor layer doped, with cerium by an atomic layer epitaxy method, exhibiting improved uniformity of luminance by employing, as a precursor of a cerium dopant an organic metal cerium compound containing a cyclopentadienyl type ligand.

SOLUTION: There is employed an organic metal cerium compound containing at least one cyclopentadienyl type ligand, preferably a compound represented by the formula: CeCpnR_{3-n}. In the formula, R is hydrocarbyl; (n) is 1-3; Cp is the formula: C₅R_{1x}R_{2y}H_{5-z}; (x) and (y) are each 1-5; x+y is (z) and z≤5; and R₁₋₂ are each a lower alkyl. Preferably, a Ce precursor is one comprising a compound selected from tricyclopentadienyl derivatives and alkyl-substituted tricyclopentadienyl derivatives of cerium, and further preferably one selected from tetramethyl- and isopropyl-substituted Ce-tricyclopentadienyl compounds.

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